

LETTER

OF THE

SUPERINTENDENT OF THE PUBLIC PRINTING,

COMMUNICATING

The seventh annual report of his office, showing the condition of the Public Printing.

FEBRUARY 6, 1860.—Read; motion to print referred to the Committee on Printing.

FEBRUARY 15, 1860.—Report in favor of printing the usual number submitted, considered, and agreed to.

OFFICE OF THE SUPERINTENDENT OF PUBLIC PRINTING,
Washington, January 16, 1860.

SIR: I have the honor to transmit herewith, in order that it may be laid before the Senate, the seventh annual report of this office, showing the condition of the public printing.

Very respectfully, sir, your obedient servant,

JNO. HEART,
Superintendent.

Hon. JOHN C. BRECKINRIDGE,
President of the Senate.

OFFICE SUPERINTENDENT PUBLIC PRINTING,
Washington, January 16, 1860.

To the Senate and House of Representatives:

I have the honor to submit, for the information of Congress, the seventh annual report of this office, exhibiting the condition and cost of the public printing, and such other information in connection therewith as is deemed of general interest.

THE PRINTING OF THE THIRTY-THIRD AND THIRTY-FOURTH CONGRESSES.

The voluminous documents ordered to be printed by the Thirty-Third and Thirty-Fourth Congresses, in quarto form, with their numerous and costly illustrations, have been completed, with the exception of the fourth and fifth volumes of the "Results of the Naval Astronomical Expedition to Chili." No additional copy for this work has been received since the last annual report from this office, nor any information as to when it may be expected.

The tenth volume of the Pacific Railroad Reports has been printed and bound, and the illustrations for the eleventh volume, (being the last,) may be expected from the lithographers in a few days, when the work will be completed.

The second and concluding volume of the Mexican Boundary Report has also been printed, bound, and delivered, since the last session of Congress.

As the various items of cost in the publication of these works may be deemed interesting, they are exhibited in detail in the following tables :

Statement showing the cost of printing and binding the Pacific Railroad Reports, in eleven volumes.

Volume.	Senate.	House.
VOLUME I.		
Printing of the letter-press, &c.....	\$6,518 60	\$6,294 28
Paper for the letter-press.....	11,034 77	10,254 14
Maps and plates, including printing and paper.....	None.	None.
Binding.....	9,684 20	10,236 92
Total.....	27,237 57	26,785 34
VOLUME II.		
Printing of the letter-press, &c.....	\$6,513 20	\$6,308 34
Paper for the letter-press.....	8,449 39	7,850 72
Maps and plates, including printing and paper.....	10,921 51	10,865 26
Binding.....	9,684 20	10,236 92
Total.....	35,568 30	35,261 24
VOLUME III.		
Printing of the letter-press, &c.....	\$6,002 69	\$5,739 79
Paper for the letter-press.....	8,144 96	7,567 90
Maps and plates, including printing and paper.....	19,588 96	21,329 00
Binding.....	9,684 20	10,236 92
Total.....	43,420 81	44,873 61
VOLUME IV.		
Printing of the letter-press, &c.....	\$6,054 52	\$5,791 80
Paper for the letter-press.....	7,230 43	6,718 59
Maps and plates, including printing and paper.....	12,344 48	12,557 46
Binding.....	9,684 20	10,236 92
Total.....	35,313 63	35,304 77
VOLUME V.		
Printing of the letter-press, &c.....	\$5,683 33	\$5,488 78
Paper for the letter-press.....	7,008 88	6,512 83
Maps and plates, including printing and paper.....	26,038 89	24,302 24
Binding.....	9,684 20	10,236 92
Total.....	48,415 30	46,540 77

STATEMENT—Continued.

Volume.	Senate.	House.
VOLUME VI.		
Printing of the letter-press, &c.....	\$5,793 36	\$5,522 43
Paper for the letter-press.....	7,231 66	6,692 77
Maps and plates, including printing and paper.....	18,072 95	16,790 99
Binding.....	9,684 20	10,236 92
Total.....	40,782 17	39,243 11
VOLUME VII.		
Printing of the letter-press, &c.....	\$5,426 12	\$5,182 60
Paper for the letter-press.....	6,341 70	5,858 38
Maps and plates, including printing and paper.....	13,482 64	12,434 86
Binding.....	9,684 20	10,236 92
Total.....	34,934 66	33,712 76
VOLUME VIII.		
Printing of the letter-press, &c.....	\$8,951 09	\$8,580 61
Paper for the letter-press.....	11,627 60	10,711 39
Maps and plates, including printing and paper.....	7,565 70	7,097 46
Binding.....	9,684 20	10,236 92
Total.....	37,828 59	36,626 38
VOLUME IX.		
Printing of the letter-press, &c.....	\$11,247 47	\$10,793 10
Paper for the letter-press.....	14,940 29	13,040 75
Maps and plates, including printing and paper.....	None.	None.
Binding.....	9,676 49	10,228 80
Total.....	34,964 25	34,062 65
VOLUME X.		
Printing of the letter-press, &c.....	\$7,873 49	\$7,528 97
Paper for the letter-press.....	8,903 88	8,269 69
Maps and plates, including printing and paper.....	43,078 60	40,189 68
Binding.....	9,676 49	10,228 80
Total.....	69,532 46	66,217 14
VOLUME XI.		
Printing of the letter-press, &c.....	\$480 96	\$363 23
Paper for the letter-press.....	299 57	189 85
Maps and plates, including printing and paper.....	26,231 55	24,985 40
Binding.....	2,774 73	1,562 20
Total.....	29,786 81	27,100 68

RECAPITULATION.

Volumes.	Cost of printing.	Cost of paper.	Cost of maps and plates.	Cost of binding.	Total cost.
First.....	\$12,812 88	\$21,288 91	.....	\$19,921 12	\$54,022 91
Second.....	12,821 54	16,300 11	\$21,786 77	19,921 12	70,829 54
Third.....	11,742 48	15,712 86	40,917 96	19,921 12	88,294 42
Fourth.....	11,846 32	13,949 02	24,901 94	19,921 12	70,618 40
Fifth.....	11,172 11	13,521 71	50,341 13	19,921 12	94,956 07
Sixth.....	11,315 79	13,924 43	34,863 94	19,921 12	80,025 28
Seventh.....	10,608 72	12,200 08	25,917 50	19,921 12	68,647 42
Eighth.....	17,531 70	22,338 99	14,663 16	19,921 12	74,454 97
Ninth.....	22,040 57	27,081 04	.....	19,905 29	69,026 90
Tenth.....	15,402 46	17,173 57	83,268 28	19,905 29	135,749 60
Eleventh.....	844 19	489 42	51,216 95	4,336 93	56,887 49
Total.....	138,138 76	173,980 14	347,877 63	203,516 47	863,513 00

Total cost of the eleven volumes, \$863,513; or \$36 10 per set.

Statement showing the cost of printing and binding Major Emory's Mexican Boundary Report, in two volumes.

Cost of the first volume.	For the Senate.	For the House.
	6,400 copies.	11,530 copies.
Printing letter-press, folding, and inserting maps and plates.....	\$3,264 56	\$4,855 10
Dry pressing.....	193 50	348 25
Printing maps and plates, and paper for the same.....	12,187 41	20,338 46
Paper for the letter-press.....	3,320 41	5,977 22
Binding reserved copies.....	1,242 84	1,562 20
Binding extra copies.....	3,861 52	6,674 72
Total.....	24,070 24	39,755 95
Cost of the second volume.	For the Senate.	For the House.
	2,400 copies.	4,530 copies.
Printing letter-press, folding, and inserting plates.....	\$2,469 46	\$3,895 07
Dry pressing.....	88 50	203 75
Printing illustrations, and paper for the same.....	11,403 29	21,524 27
Paper for the letter-press.....	1,563 38	3,328 07
Binding reserved copies, in two parts.....	2,485 68	3,124 40
Binding extra copies.....	766 46	2,288 40
Total.....	18,776 77	34,363 96

The cost of *engraving* the illustrations for this report is not included in the foregoing statements, it not having been executed under the direction of the Superintendent of the Public Printing. The cost is estimated by the Secretary of the Interior at \$40,729 93.—(See Senate Ex. Doc. No. 37, 35th Cong., 1st sess.)

RECAPITULATION.

Cost of printing letter-press, &c.....		\$15,318 19
Cost of paper for the letter-press		14,189 08
Cost of maps and plates—Engraving, as estimated by Secretary of the Interior	\$40,729 93	
Printing and paper for the illustrations, as above.....	65,453 43	
		<hr/> 106,183 36
Cost of binding.....		22,006 22
		<hr/>
Total cost		157,696 85
		<hr/> <hr/>

THE PRINTING OF THE THIRTY-FIFTH CONGRESS.

The documents ordered to be printed by the last Congress have been completed and delivered. The Estimates of Appropriations required for the fiscal year ending June 30, 1861, and the Annual Report on Commerce and Navigation for the year ending June 30, 1859, have also been printed and delivered; and, for the first time in many years, this office is enabled to report, so far as the printers are concerned, the entire completion of the printing ordered by Congress. It is but justice to acknowledge, in this connection, the energy and promptness with which the requirements of this office have been responded to by the public printers, and also by the engravers of the illustrations for the Mechanical Patent Office Report.

The following statements exhibit, in detail, the cost of the printing, binding, &c., ordered by each House of Congress during the second session of the Thirty-Fifth Congress:

REPORT OF THE

Statement showing the cost of the printing, &c., ordered by the Senate of the United States at the second session of the Thirty-Fifth Congress. Complete.

No. of document.	Title or subject.	No. of pages.	No. of copies.	Cost of printing, folding, &c.	Cost of drying and pressing.	Cost of paper.	Cost of illustrations.	Cost of binding extra copies.	Cost of binding reserved copies.	Total cost.	Cost per copy.
<i>Executive Documents.</i>											
1	Annual Message of the President of the United States and accompanying documents, (in five volumes).....	2,964	1,420	\$5,135 01	.....	\$2,228 52	\$746 54	.....	\$2,094 30	\$10,204 37	\$7 19
1	Annual Message of the President of the United States and reports of the heads of departments and chiefs of bureaus....	408	11,200	1,550 94	\$148 75	1,839 61	.....	\$1,191 40	.....	4,730 70	42
2	Annual Report of the Secretary of the Treasury on the State of the Finances	496	11,920	2,613 36	192 50	2,466 99	.....	1,117 63	418 86	6,808 74	57
14	Annual Report of the Superintendent of the Coast Survey, (quarto)	488	6,420	2,816 85	204 00	3,153 18	6,078 06	3,282 29	1,443 72	16,678 10	2 60
32	Report of the Secretary of War, communicating a Memoir of Col. Wright's late campaign against the Indians in Oregon and Washington Territories	82	1,920	129 12	.....	75 04	82 96	.....	.....	287 12	15
37	Report of the Secretary of State on Commercial Relations, (quarto)	680	2,420	3,393 40	105 00	1,656 51	.....	616 13	1,443 72	6,914 76	2 86
42	Message of the President of the United States, communicating a copy of the opinion of Judge Brewer in the Great Falls condemnation case.....	18	1,920	26 59	.....	17 63	.....	.....	.....	44 22	2
46	Report of Gov. Stevens on a Pacific Railroad Route, (quarto)....	854	1,420	2,334 38	.....	1,220 90	3,770 94	.....	1,443 72	8,469 94	5 96
47	Annual Report of the Commissioner of Patents on Arts and Manufactures, (in three volumes)	2,200	11,420	8,966 57	817 75	10,561 49	5,616 66	3,171 66	1,256 58	30,390 71	2 66
47	Annual Report of the Commissioner of Patents on Agriculture, (in one volume).....	568	11,420	2,414 00	211 25	2,146 58	153 50	1,057 22	418 86	6,401 41	56
	Annual Report of the Topographical Bureau. (Part of Senate Ex. Doc. No. 1).....	288	50	335 74	.....	9 01	.....	.....	.....	344 75	6 89
	Annual Report of the Chief Engineer. (Part of Senate Ex. Doc. No. 1)	212	50	241 75	.....	6 63	.....	.....	.....	248 38	4 96
	Annual report of the Commissioner of Indian Affairs. (Part of Senate Ex. Doc. No. 1).....	320	2,000	497 40	.....	257 52	.....	212 90	.....	967 82	48
	Annual Report of the Commissioner of the General Land Office, (Part of Senate Ex. Doc. No. 1).....	248	1,000	524 98	.....	99 95	135 20	.....	.....	760 13	76
	Annual Report of the Commissioner of Public Buildings. (Part of Senate Ex. Doc. No. 1).....	20	500	28 60	.....	4 05	.....	.....	.....	32 65	6
	Annual report of the Superintendent of the Insane Asylum. (Part of Senate Ex. Doc. No. 1).....	18	500	21 34	.....	3 90	.....	.....	.....	25 24	5
	Annual Report of the Inspectors of the Penitentiary. (Part of Senate Ex. Doc. No. 1).....	20	500	33 10	.....	4 05	.....	.....	.....	37 15	7
	All other Executive Documents, (in four volumes).....	3,070	1,420	6,099 43	.....	2,703 70	640 72	.....	1,675 34	11,119 19	7 82

<i>Miscellaneous Documents.</i>									
4	List of Committees	2,020	6 01	.....	3 66	.....	.....	9 67	.....
49	Annual Report of the Regents of the Smithsonian Institution.....	6,420	1,268 22	93 62	1,127 07	.....	528 47	3,017 38	47
	All other Miscellaneous Documents, (in one volume).....	1,420	1,206 31	.....	568 05	.....	.....	2,193 22	1 54
<i>Reports of Committees.</i>									
351	Report of the Committee on Foreign Relations on the acquisition of the Island of Cuba	6,420	76 33	.....	71 17	.....	.....	147 50	2
385	Report of the Committee on Pensions relative to the officers and soldiers of the war of 1812, &c.....	6,420	21 18	.....	22 03	.....	.....	43 21	1
	All other Reports of Committees, (in one volume).....	1,420	525 41	.....	247 63	.....	.....	1,191 90	84
	<i>Treaties</i> and other matter printed in confidence	95	632 94	.....	28 92	.....	.....	661 86	.....
	<i>Journal of the Senate</i>	1,420	960 13	.....	485 88	.....	.....	1,864 87	1 31
	<i>Bills and Joint Resolutions</i>	700	949 61	.....	716 04	.....	.....	1,665 65	.....
	<i>Miscellaneous Printing</i> —General orders, circulars, &c.....	.....	971 52	.....	80 49	.....	.....	1,032 01	.....
	Totals.....	.....	43,780 22	1,772 87	31,806 20	17,224 58	11,177 10	10,551 68	116,312 65

REPORT OF THE

No. of document.	Title or subject.	No. of pages.	No. of copies.	Cost of printing, &c.	Cost of drying and pressing.	Cost of paper.	Cost of illustrations.	Cost of binding extra copies.	Cost of binding reserved copies.	Total cost.	Cost per copy.
<i>Executive Documents.</i>											
2	Annual Message of the President of the United States and accompanying documents, (in five volumes).....	2,964	21,530	\$19,717 09	\$2,077 25	\$26,247 87	\$704 43	\$8,436 70	\$2,845 25	\$60,048 59	\$2 79
3	Annual Report of the Secretary of the Treasury on the State of the Finances.....	496	17,530	3,301 16	283 00	3,586 50	.....	1,702 05	569 05	9,441 76	54
33	Annual Report of the Superintendent of the Coast Survey, (quarto).....	488	1,530	1,400 43	.....	785 18	1,584 93	.....	1,407 50	5,178 04	3 38
85	Annual Report of the Secretary of State on Commercial Relations, (quarto).....	680	1,530	3,078 39	.....	1,047 18	.....	.....	1,407 50	5,533 07	3 62
105	Annual Report of the Commissioner of Patents on Arts and Manufactures, (in three volumes).....	2,200	21,530	14,291 37	1,541 75	19,662 24	11,233 34	6,342 52	1,707 15	54,778 37	2 54
105	Annual Report of the Commissioner of Patents on Agriculture. All other Executive Documents, (in seven volumes).....	5,568	211,530	19,590 53	3,911 00	44,259 28	153 50	22,198 98	569 05	90,682 34	43
	Annual Message of the President of the United States and reports of heads of departments. (Part of Ex. Doc. No. 2).....	5,560	1,530	13,349 80	.....	5,108 88	395 45	.....	3,983 35	22,837 48	14 93
	Annual Report of the Chief of the Topographical Bureau. (Part of Ex. Doc. No. 2).....	172	250	183 18	.....	22 73	.....	.....	.....	205 91	82
	Annual Report of the Chief Engineer. (Part of Ex. Doc. No. 2).....	288	50	3 74	.....	8 24	.....	.....	.....	11 98	24
	Annual Report of the Chief Engineer. (Part of Ex. Doc. No. 2).....	212	50	2 75	.....	6 66	.....	.....	.....	9 41	19
<i>Miscellaneous Documents.</i>											
57	Annual Report of the Regents of the Smithsonian Institution. All other Miscellaneous Documents, (in one volume).....	448	6,530	1,240 93	95 25	1,162 21	.....	528 48	569 05	3,625 92	56
	.....	1,346	1,530	2,204 65	.....	1,042 30	.....	.....	569 05	3,816 00	2 49
<i>Reports of Committees.</i>											
184	Report of the Select Committee on Naval Contracts and Expenditures.....	1,168	6,530	3,198 63	190 00	3,003 42	.....	528 48	569 05	7,489 58	1 14
	All other Reports of Committees, (in two volumes).....	1,892	1,530	2,698 73	.....	1,478 29	.....	.....	1,138 10	5,315 12	3 47
	Reports of the Court of Claims.....	1,016	1,530	1,448 22	.....	782 29	.....	.....	569 05	2,799 56	1 83
	Journal of the House of Representatives.....	768	1,660	1,215 52	.....	641 59	.....	.....	645 91	2,503 02	1 51
	Bills and Joint Resolutions.....	1,102	580	909 15	.....	630 00	.....	.....	.....	1,539 15	.....
	Miscellaneous Printing—Calendars, General Orders, &c.....	.....	.....	1,125 32	.....	226 78	.....	.....	.....	1,352 10	.....
	Totals.....	.....	.....	88,999 59	8,098 25	109,691 64	14,071 65	39,757 21	16,549 06	277,167 40	.....

By reference to the following comparative statement, it will be perceived that the cost of the Congressional printing, engraving, and binding, ordered through this office, has been annually diminishing since the Thirty-Third Congress :

Congress and session.	Senate.	House of Representatives.
Thirty-Fourth Congress, first session.....	\$342,578 44	\$589,721 42
Thirty-Fourth Congress, second session.....	249,793 56	404,314 12
Thirty-Fifth Congress, first session.....	169,747 70	326,862 55
Thirty-Fifth Congress, second session.....	116,312 65	277,167 40

A still further reduction may reasonably be anticipated from the operation of the laws passed at the last session of Congress for the regulation of the public printing.

EXECUTIVE PRINTING.

The printing for the Executive Departments and for the Court of Claims has been promptly and satisfactorily executed. Such suggestions have been made to the heads of departments and chiefs of bureaus as were deemed necessary and proper for the economizing of expenditure in this branch of the public service, and these have been readily acquiesced in.

The following statement exhibits the cost of the work executed for the Executive Departments, through this office, during the fiscal year ending June 30, 1859:

Statement showing the cost of printing, &c., ordered by the Executive Departments during the year ending June 30, 1859.

Department and bureau.	Cost of printing.	Cost of paper.	Total cost.
<i>State Department.</i>			
Secretary's office	\$270 46	\$484 19	\$754 65
Consular bureau	432 07	312 08	744 15
Diplomatic bureau	115 40	26 12	141 52
Agent's office	22 60	8 20	30 80
Rolls office	218 60	71 22	289 82
Passport bureau	51 47	29 32	80 79
Statistical office	9 50	17 10	26 60
	1,120 10	948 23	2,068 33
<i>Treasury Department.</i>			
Secretary's office	668 56	312 81	981 37
First Comptroller's office	84 53	14 47	99 00
Second Comptroller's office	3 10	1 92	5 02
First Auditor's office	228 15	173 76	401 91
Second Auditor's office	31 83	15 92	47 75
Third Auditor's office	271 79	105 61	377 40
Fourth Auditor's office	61 83	34 62	96 45
Fifth Auditor's office	110 30	67 65	177 95
Sixth Auditor's office	845 12	623 68	1,468 80
Register's office	286 53	120 25	406 78
Treasurer's office	113 80	69 55	183 35
Office of the Commissioner of Customs	63 30	24 99	88 29
Solicitor's office	8 65	1 34	9 99
Coast Survey office	329 54	137 46	467 00
Office of the Light-house Board	4,315 79	1,434 39	5,750 18
	7,422 82	3,138 42	10,561 24
<i>Interior Department.</i>			
Secretary's office	239 48	105 22	344 70
Office of the Commissioner of Indian Affairs	28 32	12 00	40 32
Office of the Commissioner of Pensions	536 45	250 45	786 90
Office of the Commissioner of the General Land Office	3,656 06	1,010 43	4,666 49
Office of the Commissioner of Patents	2,099 19	1,542 32	3,641 51
Office of the Commissioner of Public Buildings	30 15	14 57	44 72
	6,589 65	2,934 99	9,524 64
<i>War Department.</i>			
Secretary's office	53 34	79 89	133 23
Adjutant General's office	1,258 60	754 87	2,013 47
Quartermaster General's office	3,249 02	1,278 08	4,527 10
Surgeon General's office	46 32	9 80	56 12
Ordnance office	80 92	47 28	128 20
Commissary General's office	9 85	3 30	13 15
Chief Engineer's office	151 68	59 23	210 91
Topographical bureau	91 43	51 32	142 75
	4,941 16	2,283 77	7,224 93

STATEMENT—Continued.

Department and bureau.	Cost of print- ing.	Cost of paper.	Total cost.
<i>Navy Department.</i>			
Secretary's office	\$978 94	\$585 78	\$1,564 72
Bureau of Yards and Docks	552 20	105 46	657 66
Bureau of Medicine and Surgery	86 70	25 97	112 67
Bureau of Construction, Equipment, and Repairs...	1,997 35	324 80	2,322 15
Bureau of Ordnance and Hydrography	18 44	23 85	42 29
Bureau of Provisions and Clothing	1,100 66	956 94	2,057 60
	4,734 29	2,022 80	6,757 09
Post Office Department.....	48,759 69	51,816 91	100,576 60
Office of the President of the United States.....	87 04	103 49	190 53
Office of the Attorney General	472 72	40 19	512 91
Court of Claims.....	3,238 45	120 47	3,358 92
Office of the Superintendent of the Public Printing.	104 88	25 17	130 05
Annual Report of the Secretary of the Treasury on Commerce and Navi- gation; cost of binding \$1,923 26	6,191 17	5,590 89	13,705 32
Estimates of appropriations required for the year ending June 30, 1860.....	41 86	84 76	126 62
Maury's Sailing Directions, volume 2	5,793 30	4,722 59	10,515 89
Astronomical Observations, volume 5	2,420 75	405 22	2,825 97

PAPER FOR THE PUBLIC PRINTING.

The fourth section of the printing act of 1852 makes it "the duty of the Superintendent to have the requisitions of the printer, and the returns of paper by the printer, balanced at least once in each year, and in default thereof to report the same to Congress for such proceedings as Congress may direct." Heretofore, owing to the unfinished condition of the printing at the commencement of each session of Congress, this requirement has never been complied with; and, even with this obstacle removed, the statement now presented, after the most patient and thorough investigation, is far from satisfactory. In the language of my immediate predecessor, in his last annual report: "For a great length of time the paper purchased for the printing of Congress, amounting in value to hundreds of thousands of dollars, had been received from the contractors and delivered to the public printers by persons not employed by, and wholly irresponsible to this office for the proper performance of this important duty, whose very crude memorandums, often in pencil, appear to be the only information upon which entries have been made in the books of this office, and which have proved to be unreliable." With this explanation, the following state-

ment is submitted as the most authentic that can be prepared from the records of this office, viz :

There have been purchased for the government from the passage of the printing act of August 26, 1852, to December 16, 1859, the following quantities of printing paper:

45 lbs. reams.	48 lbs. reams.	52 lbs. reams.	56 lbs. reams.
161,274	2,948	46,574	40,306

Of which, as per records in this office, the following disposition has been made:

Of 45 lbs. paper purchased.....	161,274	reams.
There was delivered to the printers.....	150,794	
There was delivered to the binders.....	4,882 $\frac{9}{20}$	
Damaged.....	10	
In the warehouse.....	5,130 $\frac{6}{20}$	
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	160,816 $\frac{15}{20}$	reams.

Unaccounted for.....	457 $\frac{5}{20}$	reams.
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Of 48 lbs. paper purchased.....	2,948	reams.
Delivered to printers.....	2,478	
In warehouse.....	470	
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	2,948	reams.

Of paper weighing 52 and 56 lbs., there has been purchased.....	86,880	reams.
Delivered to printers.....	84,383 $\frac{19}{20}$	
Delivered to binders.....	894 $\frac{1}{20}$	
Damaged.....	2	
In warehouse.....	1,500 $\frac{10}{20}$	
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	86,780 $\frac{10}{20}$	reams.

Unaccounted for.....	99 $\frac{1}{20}$	reams.
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Thus it will be seen that of the 251,102 reams of paper purchased, costing, say \$1,560,652; 457 reams of forty-five pounds paper, costing \$2,445 46; and ninety-nine reams of fifty-six pounds paper, costing \$742 89, are entirely unaccounted for. Whether it has been fraudulently disposed of, or delivered to the public printers without taking receipts therefor, there are no means of ascertaining by the records of this office, and consequently it may be considered as lost to the government. These results, which have been reached after a most laborious and thorough investigation of the matter, present as full and accurate a settlement of the account as it is possible now to obtain.

It is but proper to state that the discrepancies in the paper account can be distinctly traced to a period anterior to the 19th of July, 1858, when they first became apparent to my predecessor. Since that time the receiving of paper from the contractors, and its delivery to the printers, have been under the immediate personal supervision of this office, and the accounts are kept in a manner that will effectually pre-

clude errors or mystification in the future. The following is a statement of the requisitions and returns of paper by the public printers.

Of 45 lbs. paper delivered.....	150,794	reams.
Returned in printed matter.....	145,715 $\frac{2}{20}$	
Allowance for waste, 3 per cent.....	4,372	
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	150,087 $\frac{2}{20}$	reams.

Due the government by the public printers.....	707 $\frac{18}{20}$	reams.
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Of 48 lbs. paper delivered.....	2,478	reams.
Returned in printed matter.....	2,406	
Allowance for waste, 3 per cent.....	72	
	<hr/>	
	2,478	reams.

Of 52 and 56 lbs. paper delivered.....	84,313 $\frac{19}{20}$	reams.
Returned in printed matter.....	82,295	
Allowance for waste, 3 per cent.....	2,467	
	<hr/>	
	84,762	reams.

In excess.....	378 $\frac{1}{20}$	reams.
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By the foregoing statement, it appears that the public printers are indebted to the government for 707 reams of forty-five pounds paper, while they are entitled to a credit for 378 reams of fifty-two and fifty-six pounds paper. This discrepancy can only be accounted for by the irregularity, designedly or otherwise, with which the accounts of the office were formerly kept, and the allegation that at times during the Thirty-Fourth Congress it was found necessary to use forty-five pounds paper instead of fifty-six pounds paper for a portion of the reserved copies of the public documents.

The printer's requisitions for paper for the post office blanks have also been examined and adjusted, and I find that he is indebted to government as follows, viz: Paper measuring 19 + 26 inches, and weighing 23 pounds to the ream, 172 reams; and of paper measuring 18 + 25 inches, and weighing 26 pounds to the ream, 425 reams; amounting in the aggregate to \$1,640 37.

It will be perceived by this settlement of the accounts of the public printers, which have been running unbalanced for several years, owing to the unfinished condition of the public printing, that they are indebted to the government for 329 reams of printing paper, at \$5 37.3 per ream, amounting to the sum of \$1,767 71; and for paper for the post office blanks, 597 reams, amounting to \$1,640 37; the aggregate of the indebtedness for paper being \$3,408 08, which I report to Congress, in obedience to the fourth section of the act of 1852. The attorney for the public printers has been notified of this deficiency, and informed that the amount would be withheld by this office from their bills for printing, until otherwise ordered by Congress.

The following statements exhibit the quantity of paper purchased for the public printing, including that for the post office blanks, from November 1, 1858, to December 16, 1859, inclusive.

Statement showing the quantity of printing paper purchased for the public printing, from November 1, 1858, to December 16, 1859.

From whom.	What year.	Kind of paper.				Cost per ream.	Total.	Aggregate.
		No. reams 45 pounds.	No. reams 48 pounds.	No. reams 52 pounds.	No. reams 56 pounds.			
Curtis & Brother.....	1858	.....	.....	.....	1,394	\$7 84	\$10,928 96	\$10,928 96
John H. Hall.....	1858	.....	.....	740	.....	7 93	5,868 20	5,868 20
S. J. Megargee.....	1858	3,580	.....	.....	.....	6 00 ³⁰ / ₁₀₀	21,490 74	21,490 74
Megargee Brothers.....	1859	19,000	.....	.....	.....	5 37 ³⁰ / ₁₀₀	102,087 00	102,087 00
Miller & Hines.....	1859	.....	.....	.....	300	7 56	2,268 00	2,268 00
Charles Magarge & Co.....	1859	.....	.....	.....	352	7 84	2,759 68	2,759 68
Grant, Warren & Co.....	1859	.....	302	.....	.....	6 95 ⁴ / ₁₀₀	2,099 02 ³⁸ / ₁₀₀	2,099 02 ³⁸ / ₁₀₀
James M. Willcox & Co.....	1859	.....	.....	.....	150	7 45 ⁴⁰ / ₁₀₀	1,117 50	2,759 68
Do.....	1859	.....	.....	.....	6,200	7 50 ⁴⁰ / ₁₀₀	46,524 80	47,642 30
		22,580	302	740	8,396	.....	.....	195,143 90 ³⁸ / ₁₀₀

Statement showing the quantity of paper purchased for post office blanks, from November 1, 1858, to December 16, 1859, inclusive.

From whom.	No. reams.	Size.	Weight per ream.	Cost per ream.	Total.	Aggregate
Joseph T. Crowell.....	1,000	19 by 26	<i>Pounds.</i> 28	\$4 13	\$4,130 00	.....
Do.....	4,912	19 by 23	23	3 85 ¹	18,923 48	.....
Do.....	1,800	18 by 25	26	3 83 ²	6,903 00	.....
Do.....	300	18 by 18	22	3 02 ²	6,907 50	.....
Do.....	50	18 by 22	24	3 30	165 00	.....
Do.....	300	12 by 18	12	1 77	531 00	.....
Do.....	10,500	19 by 26	23	3 33 ²	35,017 50	.....
Do.....	2,850	18 by 25	26	3 51	10,003 50	.....
Do.....	800	18 by 18	22	2 42	1,936 00	.....
Do.....	300	12 by 18	12	1 32	396 00	.....
Do.....	300	19 by 26	28	3 50	1,050 00	.....
Do.....	400	18 by 22	24	2 76	1,104 00	.....
Total.....	23,512	.....	.....	.....	.....	\$81,066 98

Statement showing the quantity of writing, map, and plate paper purchased for the public printing, from November 1, 1858, to December 16, 1859, inclusive.

From whom.	No. of reams.	Kind of paper.	Weight per ream.	Cost per ream.	Total.	Aggregate.
			<i>Pounds.</i>			
Taylor & Maury.....	10	Blue imperial.....	66	\$16 50	\$165 00	\$1,923 45
Do.....	40	Blue wove medium.....	36	8 10	324 00	
Do.....	205	White folio post.....	16	3 20	656 00	
Do.....	240	White quarto post.....	8	1 92	460 80	
Do.....	80	Blue quarto post.....	8	1 92	153 60	
Do.....	19 ⁶ / ₃₆	White double cap.....	28	8 50	164 05	
Megargee Brothers.....	1,524	White quarto post.....	8	1 60	2,438 40	
Do.....	200	Blue quarto post.....	8	1 60	320 00	
Do.....	200	White folio post.....	16	2 88	576 00	
Do.....	94	Blue folio post.....	16	2 88	270 72	
Do.....	192	White folio post.....	20	3 60	691 20	
Do.....	100	Blue folio post.....	20	3 60	360 00	
Do.....	992 ¹⁹ / ₃₆	White flat cap.....	12	1 92	1,905 60	
Do.....	300	do.....	14	2 24	672 00	
Do.....	296	do.....	16	2 56	757 76	
Do.....	246	Blue flat cap.....	12	1 92	473 32	
Do.....	105	do.....	14	2 24	235 20	
Do.....	84	do.....	16	2 56	215 04	
Do.....	10	Blue colored medium.....	36	6 48	64 80	
Do.....	20	White medium.....	34	6 12	122 40	
Do.....	20	do.....	38	6 84	136 80	
Do.....	10	Blue imperial.....	66	11 88	118 80	
Do.....	20	French blue quarto post.....	.....	3 00	60 00	
Do.....	.....	1,560 sheets bond paper, at 2½ cents per sheet.....	.....	.....	39 00	
Do.....	10	Blue-laid demy.....	27	4 59	45 90	
Do.....	20	White royal.....	45	8 10	162 00	
Do.....	16	Blue medium.....	34	6 12	97 92	
Do.....	10	White superroyal.....	55	9 90	99 00	
Do.....	5	Blue superroyal.....	55	9 90	49 50	
Do.....	8	Blue royal.....	45	8 10	64 80	
						9,976 16

Campbell, Hall & Co	14	Writing paper, 19 by 24 inches, (<i>special</i>).....	20	4 00	56 00	76 80
Do	4	Writing paper, 20 by 30 inches, (<i>special</i>).....	26	5 20	90 80	
Charles Magarge & Co	100	Fine printing paper, 24 by 38 inches, (<i>special</i>)....	50	7 00	700 00	700 00
Tileston & Hollingsworth.....	261 ⁹ / ₂₀	Plate paper, 19 by 24 inches	60	11 70	3,058 38	3,058 38
Margree Brothers.....	29 ⁹ / ₂₀	.....do.....do	50	7 97	234 71	
Do	76 ³ / ₂₀	.....do.....do	60	9 56 ⁴⁰ / ₁₀₀	730 74	
Grant, Warren & Co		40,114 pounds map paper, at 14 ⁴⁸ / ₁₀₀ per pound			5,808 51	965 45
						5,808 51
						22,508 75

RECAPITULATION.

Printing paper	\$195,143 90
Paper for post office blanks	81,066 98
Writing paper.....	12,676 41
Plate paper	4,023 83
Map paper	5,808 51
Total.....	298,719 63

I beg leave, in this connection, respectfully to reiterate the recommendation of my immediate predecessor, in the last annual report, that but one grade of paper be used for the printing of the public documents. The present system, which requires the regular number of documents to be printed on paper weighing 56 pounds to the ream, and the extra numbers on paper weighing 45 pounds, is productive of difficulty and confusion in our paper accounts, without countervailing advantages. The many improvements in the manufacture of paper have materially modified the proportionate cost of the materials and labor involved in its production, so that its price depends much more upon its weight than its quality. I consider the grade of 56 pounds unnecessary, and would recommend a uniform standard of 48 pounds to the ream of 480 sheets, as better calculated to meet the requirements of the public service. A still further improvement, in my opinion, would be in requiring the ream to consist of 500 sheets, not only as better calculated to simplify and facilitate our accounts with the printer, but as being more conformable to our decimal system of currency.

I would also recommend a modification of the provision making it obligatory to open the proposals to furnish paper for the public printing in the presence of the Vice-President and Speaker of the House of Representatives. The difficulty occasionally occurring in the organization of the House subjects this office to much embarrassment by the delay, which would be obviated by the substitution for the Speaker of some other public officer.

Lithographing and engraving.

The subjoined table exhibits all the contracts entered into by this office, during the last year, for engraving and lithographing maps, charts, views, &c., required to illustrate the documents ordered to be printed by Congress. With few exceptions, the work has all been executed and received by this office.

Statement showing the cost of engraving and lithographing for documents ordered to be printed by the Senate and House of Representatives, second session Thirty-Fifth Congress.

Reports.	Contracted.	Description of work.	Amount.	Aggregate.
Maps, message and documents.....	Selmar Siebert	Engraving and lithographing....	\$220 00	
Do.....	Curtis B. Graham .....	.....do.....	258 87	
Do.....	William Smith.....	.....do.....	73 32	
Do.....	Thomas S. Wagner .....	.....do.....	111 50	
Do.....	E. Kitterlinus.....	.....do.....	152 50	
Do.....	Herline & Hensell.....	.....do.....	170 30	
Do.....	Julius Bien.....	.....do.....	220 00	\$1,206 49
Maps, Coast Survey Report, 1858.....	Julius Bien.....	Engraving and lithographing....	2,725 00	
Do.....	Curtis B. Graham .....	.....do.....	465 64	
Do.....	William Smith.....	.....do.....	121 73	
Do.....	A. Hoen & Co.....	Lithographing	145 40	
Do.....	Hatch & Co.....	.....do.....	528 66	
Do.....	Thomas S. Wagner.....	.....do.....	218 62	
Do.....	John Cassin.....	.....do.....	298 12	
Do.....	Van Ingen & Snyder.....	Engraving on wood.....	5 25	4,508 42
Maps, wagon road reports	Thomas S. Wagner.....	Engraving and lithographing....	.....	557 00
Map, Captain Simpson's wagon road report.....	Julius Bien.....	.....do.....	.....	120 06
Maps, Captain Wright's report, Indian campaign	Julius Bien.....	.....do.....	.....	75 00
Maps, Captain Wilkes's report on Deep river country, N. C.	Curtis B. Graham .....	.....do.....	105 00	
Do.....	Van Ingen & Snyder.....	Engraving on wood	5 25	110 25
Governor Stevens's report	Julius Bien.....	Engraving and lithographing....	2,621 32	
Do.....	Thomas S. Wagner.....	.....do.....	284 00	
Do.....	Herline & Hensell.....	.....do.....	90 88	
Do.....	Curtis B. Graham .....	.....do.....	159 75	3,155 95

STATEMENT—Continued.

Reports.	Contractors.	Description of work.	Amount.	Aggregate.
Mechanical Patent Office Report, 1858.....	E. R. Jewett	Engraving and electrotyping .....	.....	\$16,850 00
Agricultural Report, 1858.....	Van Ingen & Snyder.....	.....do .....	.....	307 00
* Pacific Railroad report, volume XI.....	John Cassin.....	Lithographing	\$2,628 00	
* Do.....do.....	Schmar Siebert.....	.....do	627 20	3,265 20
Total.....	.....	.....	.....	<u>30,155 31</u>

* These items were for the first session of the Thirty-Third Congress.

During the progress of the public printing for many years, a very large number of engravings on steel, copper, and wood have accumulated in the office of the Secretary of the Senate and Clerk of the House of Representatives. It has been the intention of this office, in obedience to the direction of Congress, to take charge of these engravings, to have them carefully prepared for preservation, and a schedule made of them in such manner as to afford ready access to those that may be hereafter required for public use. Until recently this object has been rendered impracticable, on account of the very limited accommodations afforded to this office; but, this obstacle being removed, measures will be immediately taken to carry out the views of Congress.

In connection with the subject of economizing the expenditures for the public printing, it may be proper to state that a rigid adherence to the provisions of the law respecting the kind of type to be used in particular cases will considerably reduce the size of some of the volumes, and proportionately their cost. It is provided that the body of all plain matter shall be printed in small pica, "except extracts, yeas and nays, and addenda," which shall be printed in brevier. As a page of brevier contains at least one-third more matter than one of small pica, a very material saving of paper and press-work can be secured by enforcing a stricter compliance with the law.

A much greater saving, however, may be effected, by the substitution, generally, of long primer for small pica type, in the congressional printing, and without detriment to its appearance or legibility. A page of small pica contains about sixteen hundred ems, and of long primer two thousand ems, being a gain of twenty per cent., which would be the proportionate saving effected in press-work and paper. A page of the Agricultural Report of the last session in small pica and long primer is herewith given in illustration.

valuable, and vital to his happiness. In the works of the renowned races of ancient Rome, Greece, and Egypt, as well as the lore of that primitive people, the Hebrews, are described, full of sublimity and classic grandeur, vast and mighty deeds, and extensive mechanical powers in the art of the destructive elements of war—marvelous even to the present generation—or in the more rational arts of peace. In books, too, are described the heavens and the firmament, the different orders, magnitudes, and wonderful movements of the stars, or the worlds and suns above; the true nature and properties of the elements which envelop our globe, the dwelling places and dominions of men; a full account of those vast treasures and gifts which grow and live upon the surface, as well as those which are deposited in its bosom; including a description of the properties, qualities, and uses of the vast treasures of the deep, with their various orders, affinities, links, harmonies, beauties, elegancies, and marvelous adaptations. In a word, all knowledge is registered and deposited in their pages so far as the first glance strikes the unreflecting mind; but they do not regale the docile mind of infant man with the vivid charms of all realities which engage the innate faculties of his youthful soul. Alas, all these vast treasures of knowledge are only marked in science and black hieroglyphics belonging entirely to the order of shadows and finite things; whereas the vital teacher belongs to the infinite order, possessing all the brilliant, animating, electrifying and fructifying powers of a living spirit, who alone has the faculty of producing those pleasing qualities, and making the pupils hear, see, feel, touch, handle, taste, and smell, as well as converse, through the marvelous gift of speech, upon all the treasures of science, and play the sweet sounds of music, and the varied harmonies of many tongues.

In viewing our elementary school system, as it at present exists, and as a preparatory step to entering the agricultural colleges now going into operation in the United States, especially those of the middle and northern sections, it is obvious that unexpected difficulties will arise from the circumstance that the young pupils, as a general thing, on entering will not be sufficiently advanced in the rudiments of knowledge to profit by the instructions these institutions will be calculated to impart. For them to enter with any attempt to build without a proper foundation, would most assuredly be attended with many disadvantages; for in all cases, unless they are prepared to deduce their lessons, it would certainly end in a failure. Let us be permitted, then, to suggest that these large establishments, so munificently endowed, and which promise so much benefit to the community, be first converted into normal agricultural schools and model farms for the education of teachers and other persons somewhat advanced in knowledge, preparatory to their entering upon business or other active duties of life. The success of an institution of this kind would depend, however, in a great measure, upon its principal, who should not merely be the educator, but the constant companion and guide of his students, laboring, resting, and playing with them, as well as instructing and explaining everything to them; one whom they could love because he is amiable and kind; reverence because of his age and character; and respect from his possessing a fund of

valuable, and vital to his happiness. In the works of the renowned races of ancient Rome, Greece, and Egypt, as well as the lore of that primitive people, the Hebrews, are described, full of sublimity and classic grandeur, vast and mighty deeds, and extensive mechanical powers in the art of the destructive elements of war—marvelous even to the present generation—or in the more rational arts of peace. In books, too, are described the heavens and the firmament, the different orders, magnitudes, the wonderful movements of the stars, or the worlds and suns above; the true nature and properties of the elements which envelop our globe, the dwelling places and dominions of men; a full account of those vast treasures and gifts which grow and live upon the surface, as well as those which are deposited in its bosom; including a description of the properties, qualities, and uses of the vast treasures of the deep, with their various orders, affinities, links, harmonies, beauties, elegancies, and marvelous adaptations. In a word, all knowledge is registered and deposited in their pages so far as the first glance strikes the unreflecting mind: but they do not regale the docile mind of infant man with the vivid charms of all realities which engage the innate faculties of his youthful soul. Alas, all these vast treasures of knowledge are only marked in science and black hieroglyphics belonging entirely to the order of shadows and finite things; whereas the vital teacher belongs to the infinite order, possessing all the brilliant, animating, electrifying and fructifying powers of a living spirit, who alone has the faculty of producing those pleasing qualities, and making the pupils hear, see, feel, touch, handle, taste, and smell, as well as converse, through the marvelous gift of speech, upon all the treasures of science, and play the sweet sounds of music, and the varied harmonies of many tongues.

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The long primer page, it will be perceived upon examination, takes in not only the fifty-one lines of the small pica page, but also fifteen additional lines, being a gain of upwards of twenty-five per cent. Had long primer been used, instead of small pica, in the Agricultural Report of last session, the saving in press-work and paper in that single document would have amounted to \$17,945 77. The change would also be desirable in considerably reducing the size of some volumes which have grown to be cumbrous and unwieldy, but which it would be inconvenient to divide, such as the Journals of Congress, especially for the long sessions. The documents would not only be reduced in size, but comprised within a smaller number of volumes, thus reducing the expense of binding, while the incidental saving of material and labor in enveloping would amount to a considerable sum. Add to this the consequent reduction in the weight and volume of the matter transmitted through the mails, and I trust it will not be considered that I have over estimated the importance of the recommendation in asking for it the attentive consideration of Congress.

Respectfully submitted:

JNO. HEART,
Superintendent.



